SYSTEM AND METHOD FOR ENCRYPTING AND DECRYPTING DATA USING DERIVATIVE EQUATIONS AND FACTORS

ABSTRACT OF THE INVENTION

A data cryptographer encrypts and decrypts character data of any given length using derivative equations and factors. The use of factors and derivative equations introduces the randomness required for effective encryption without the use of complex mathematics. A set of equations determined by the user is used in a manner similar to a key but with random results. Only a portion of the key is exposed to decrypt the encrypted information. The data cryptographer may be configured using either simple or complex equations and may be implemented in an unlimited number of variations. The data cryptographer is portable, and can be implemented in any programming language that supports cyclical character manipulation. The data cryptographer also supports input from a variety of sources, allowing control from the administrator side, string value side, or any other input that may be extracted from the desired programming language.